

HIGH PERFORMANCE STANDARD CONFIGURATION DISC DRIVE HAVING SMALLER-THAN-STANDARD DISCS

ABSTRACT OF THE DISCLOSURE

A magnetic disc drive assembly comprises a disc drive housing having an external three-dimensional configuration matching a standard configuration. A disc drive is supported in the housing and includes a stack of rotatable rigid magnetic recording discs in a unique configuration wherein each disc has a diameter smaller than the diameter of rigid discs ordinarily contained in a disc drive housing having the standard configuration. Optionally, the stack of discs includes a number of discs greater than that normally housed in a disc drive housing having the standard configuration. Various techniques are employed to achieve the unique disc configuration, including a stop mechanism attached to the yoke of an E-block assembly, a conductor assembly electrically connecting transducers on the E-block to a flex circuit and employing fins supported in slots in the E-block, a cable connector mounted to a circuit board supported on the disc drive housing and having a connector housing conforming to a portion of the disc drive housing, and a desiccant housing providing structural support for the disc drive housing.